

REMARKS/ARGUMENTS

Claim Amendments

The Applicant has amended claims 1, 14, 15, and 17. Claim 23 has been added. Applicant respectfully submits no new matter has been added. Accordingly, claims 1-12 and 14-23 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

Examiner Objections - Claims

Claim 13 was noted by the examiner as absent. The Applicant appreciates the Examiner's thorough review of the claims. Claim 13 was inadvertently dropped in the presentation of the claims in the preliminary amendment. Since the Examiner treats claim 13 as canceled, claim 13 is being added as claim 23. Additionally claim 13 has been canceled. The number of claims is now in accordance with 37 CFR 1.126. Therefore, the Examiner's consideration of the amended claims is respectfully requested.

Claim Rejections – 35 U.S.C. § 112

Claim 14 stands rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter as the invention. In response, the Applicant has amended claim 14 to depend upon newly added claim 23. Therefore, the Applicant respectfully requests the allowance of claim 14.

Claim Rejections – 35 U.S.C. § 102(b)

Claims 1-5, 7-12 and 14-21 stand rejected under 35 U.S.C. 102(b) as being anticipated by Wollan et al (US 5,854,939). The Applicant has amended the claims to better distinguish the claimed invention from Wollan. The Examiner's consideration of the amended claims is respectfully requested.

The Applicant has amended claims 1, 15, and 17 to overcome the § 102(b) rejections. Claim 1 now recites a dedicated special-purpose register file separate from

other general register files of the computer system and adapted solely for holding memory address calculation information received from memory (summary, page 7, lines 26-30). The Applicant's claimed invention provides a special-purpose register file which is dedicated for storing memory address calculations. This special-purpose register file is separate from other general register files. By separating (in terms of functionality) the special-purpose register files from other files, the present invention provides effective and efficient memory access by the computer system not shown in the cited prior art.

Wollan discloses a computer system having a register file which performs arithmetic computers for data stored in the registers (see. Col. 3., lines 39-41). The register file is not a specialized register file dedicated solely for holding memory address calculation information. The register file in Wollan performs other functions and is merely a general register file not dedicated to a specified task.

The Examiner stated that Wollan discloses a dedicated interface for allowing efficient transfer of memory address calculation information. The Applicant respectfully disagrees with this characterization. Wollan discloses a link between the instruction register and the register file that provides an interface for several functions, including arithmetic calculations and other functions not related to the transfer of memory address calculation information. The Applicant's claimed invention provides an interface which is dedicated solely for the efficient transfer of memory address calculation information.

Claims 15 and 17 have also been amended and recite similar limitations as amended claim 1. Wollan does not disclose all the elements of amended claims 1, 15, and 17. Claims 2-5, 7-12, and 14 depend from amended claim 1 and recite further limitations in combination with the novel elements of claim 1. Claim 16 depends from amended claim 15 and recites further limitations in combination with the novel elements of claim 15. Claims 18-21 depend from amended claim 17 and recite further limitations in combination with the novel elements of claim 17. Therefore, the allowance of claims 1-5, 7-12, and 14-21 is respectfully requested.

Claims 1, 6, 15, 17 and 22 stand rejected under 35 U.S.C. 102(b) as being anticipated by Aikawa et al (US 5,371,865). The Applicants have amended the claims to

better distinguish the claimed invention from Aikawa. The Examiner's consideration of the amended claims is respectfully requested.

The Applicant has amended claims 1, 15, and 17 to overcome the § 102(b) rejections. As discussed above, claim 1 now recites a dedicated special-purpose register file separate from other general register files of the computer system and adapted solely for holding memory address calculation information received from memory. The Applicant's claimed invention provides a special-purpose register file which is dedicated to storing memory address calculations. This special-purpose register file is separate from other general register files.

Aikawa discloses a computer system having a register file which stores a base address. However, Aikawa does not disclose a dedicated special purpose register file which is separate from other general register files. Aikawa merely discloses a generalized register performing several functions. In addition, Aikawa merely discloses a link between a memory and a register file which is not a special purpose register file. Aikawa, like Wollan, merely provides registers performing more than one function, which is distinct from the Applicant's claimed invention which provides a specialized register file to perform a specific function.

Claims 15 and 17 have also been amended and recite similar limitations as amended claim 1. Aikawa does not disclose all the elements of amended claims 1, 15, and 17. Claim 6 depends from amended claim 1 and recites further limitations in combination with the novel elements of claim 1. Claim 22 depend from amended claim 17 and recites further limitations in combination with the novel elements of claim 17. Therefore, the allowance of claims 1, 6, 15, 17, and 22 is respectfully requested.

Prior Art Not Relied Upon

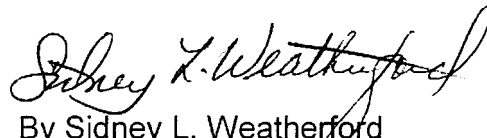
In paragraph 8 on page 11 of the Office Action, the Examiner stated that the prior art made of record and not relied upon is considered pertinent to the Applicant's disclosure. None of the prior art of record discloses a special-purpose register file for storing memory address calculation information.

CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for all pending claims.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Sidney L. Weatherford".

By Sidney L. Weatherford
Registration No. 45,602

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Ericsson Inc.
6300 Legacy Drive, M/S EVR 1-C-11
Plano, Texas 75024

(972) 583-8656
sidney.weatherford@ericsson.com